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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/989,357	11/20/2001	Thomas Lee Rodeheffer	9772-321-999	1127
24341	7590	06/24/2004	EXAMINER	
MORGAN, LEWIS & BOCKIUS, LLP. 3300 HILLVIEW AVENUE PALO ALTO, CA 94304			PUENTE, EMERSON C	
			ART UNIT	PAPER NUMBER
			2113	

DATE MAILED: 06/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/989,357	Applicant(s) RODEHEFFER ET AL.	
	Examiner Emerson C Puente	Art Unit 2113	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 7-18 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 1-6 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/30/02</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1-18 have been examined

Claim Objections

Claims 1-6 are objected to because of the following informalities:

In regards to claim 1, please swap the paragraph beginning with “access logic...”(see line 8 of claim) with the paragraph beginning with “error logic...”(see line 12 of claim) The limitations “the error logic” and “the error detection signal”(see line 9 of claim) lack antecedent basis.

In regards to claim 4, please swap the paragraph beginning with “access logic...” (see line 11 of claim) with the paragraph beginning with “error logic...” (see line 15 of claim) The limitations “the error logic” and “the error detection signal”(see line 12 of claim) lack antecedent basis.

The remaining claims, not specifically mentioned, are objected to because they are dependent upon one of the claims mentioned above.

Appropriate correction is required.

Examiner's Statement of Reason for Allowance

Claims 1-6 would be allowable if rewritten to overcome the “Claim Objections” set forth above. Claims 7-18 are allowable.

The following is an Examiner's statement of reasons for the indication of allowable subject matter: Claims 1, 4, 7, 10, 13, and 16 are allowable over the prior art of record because

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the Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of the said prior arts.

The reason for allowance for claims 1 is the inclusion of a code array for storing error codes, including a distinct error code for each of the plurality of memory lines in conjunction with the rest of the limitation set forth in the claim.

The reason for allowance for claims 4 and 7 is the inclusion of a code array for storing error codes, including a distinct error code set for each of the plurality of memory lines, each error code set including a plurality of error codes with a distinct error code for each of the plurality of distinct portions of the associated memory line in conjunction with the rest of the limitation set forth in the claim.

The reason for allowance for claims 10 is the inclusion of maintaining a code array that includes a distinct error code for each of the plurality of memory lines in the memory array associated with the memory module in conjunction with the rest of the limitation set forth in the claim.

The reason for allowance for claims 13 is the inclusion of maintaining a code array that includes a distinct error code set for each of the plurality of memory lines in the memory array associated with the memory module, each error code set including a plurality of error codes with a distinct error code for each of the plurality of distinct portions of the associated memory line in conjunction with the rest of the limitation set forth in the claim.

The reason for allowance for claims 16 is the inclusion of maintaining a code array that includes a distinct error code set for each of the plurality of memory lines, each error code set including a plurality of error codes with a distinct error code for each of the plurality of distinct

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portions of the associated memory line in conjunction with the rest of the limitation set forth in the claim.

The remaining claims, not specifically mentioned, are allowed because they are dependent upon one of the claims mentioned above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

This application is in condition for allowance except for the following formal matters:

See "Claim Objections" above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emerson C Puente whose telephone number is (703) 305-8012. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert W Beausoliel can be reached on (703) 305-9713. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-5631.

Emerson Puente

6/22/04



ROBERT BEAUSOLIEL
PRIMARY PATENT EXAMINER
RECEIVING CENTER 2100